of the Bottom of the *Crater*, out of the very middle of the Mountain, contrary to what *Borellus* imagines, whose Method of explaining the Eruption of a *Volcano* by an inflexed Syphon, and the Rules of *Hydrostaticks*, is likewise inconsistent with the Torrent's flowing down from the very *Vertex* of the Mountain. I have not seen the *Crater* since the Eruption, but design to visit it again before I leave *Naples*. I doubt there is nothing in this worth shewing the Society; as to that, you will use your Discretion.

E. Berkeley.

VI. *An Account of an extraordinary* TUMOUR *or* WEN *lately cut off the Cheek of a Person in* Scotland. *Communicated to the Royal Society by Dr.* Thomas Bower, *M. D.* and *F. R. S.*

IT is generally acknowledg'd, that the exact Observation of internal Diseases, and the faithful Accounts of external Tumours, and extraordinary Cases in Chirurgery, have contributed very much to the Advancement of Medicine. *Hippocrates* and *Galen*, and other ancient Fathers of Medicine, have set us fair Copies of this; and the Moderns, happily following their Footsteps, have illustrated this Matter by many curious Observations and Reflections. The Royal Societies and Colleges of *Virtuosi*, that are now over all *Europe*, have taken much pains in this Affair, and have given us many Instances and Examples of Extraordinary Cases in Medicine, which are of great use to all the Practisers of Physick and Chirurgery. According to these laudable Examples I shall, for the Satisfaction

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of the Curious and Ingenious, give a true and faithful Account of an extraordinary Excreſcence cut off from the Cheek of a Man, which weighed Nineteen Pounds, and the Patient entirely recover'd in few Weeks time. I never before ſaw the like, nor never read of it in any Author, tho' I have conſulted many on the Head. This Excreſcence is preſerved among the Rarities of the College of Phyſicians at *Edinburgh*. The Phyſician concern'd in this Affair, was Dr. *Alexander Ruſſel* of *Elgine*, a learned and ingenious Man, and the Operator was the ingenious Mr. *George Gordon* of *Keith*, from whom I had the following Information.

Alexander Palmer, of the Pariſh of *Keith*, in the County of *Bamff*, in the North of *Scotland*, now about Fifty Four Years of Age, obſerved, when about Twenty Seven, a little hard Swelling in the Muſcle of the lower Jaw on the Left Side, without any Hurt or manifeſt Occaſion, which at firſt went on ſlowly, but afterwards it proceeded more quickly, and the older it grew, it ſtill came on the faſter; until it increaſed to a prodigious Bulk and Weight: From the firſt Appearance of this Tumour to the total Exciſion of it, there were about Twenty Seven Years. He had exceſſive Pains and Uneaſineſs in it, and at laſt it mightily extenuated and emaciated him, who was otherwiſe a ſtrong and robuſt Man.

This Excreſcence was of the natural Colour of the Skin, and ſeem'd to be an *Atheroma*, being a glandulous Subſtance with ſeveral big Blood-Veſſels in it, and had Hair growing on it, as on the other Parts of the Body, as may yet be ſeen. It was almoſt round and very hard, and was as ſenſible as any other Part of the Body; for, when the poor Man was working in the Fields,

Fields, ſome ſix or ſeven Years ago, he accidentally made a great Gaſh or Wound in it with a ſharp Iron, which was very painful, but was cured by a Surgeon, after the manner of an ordinary Wound; the Cicatrice is ſtill to be ſeen in it.

This Excreſcence having grown ſo big, was attach'd to the Muſcle under the Left Eye, call'd *Obliquus minor* or *inferior*, to the Ear and its Muſcles, and to the Muſcle of the lower Jaw, named *Deprimens*. By reaſon of its great Bulk and Weight, it could not hang down freely without ſome Support, therefore it reſted on the top of the Shoulder, which made a conſiderable Dimple in it, that is yet very obſervable; beſides, it was holden up by the Man's Hand in the Day-time, and laid on a Pillow in the Night-ſeaſon.

Some three or four Days before the total Exciſion was made, the Patient obſerved this Tumour begin to mortify at the lower end, which made him ſo uneaſy, that he took a Knife and cut off a good part of it. This occaſion'd a great Hæmorrhage; ſo that he reckon'd there was loſt a *Scots* Pint or four Pounds of Blood, before it could be ſtopt. The Patient, after ſo great Trouble and Pain, at laſt applied himſelf to Mr *Gordon*, Surgeon of the Place, who made a total Extirpation of it, on the 19*th* of *January*, 1717.

He made a cloſe Ligature, taking in the Baſis of the Excreſcence, and all the looſe Skin, and contracting it as much as poſſible, he cut it entirely off with a ſharp Raſour. There guſh'd out of the Excreſcence, after it was cut off, and was lying on the Ground, as near as could be gueſs'd, two Pounds of Blood; for it was nouriſh'd by ſeveral large Blood-Veſſels, perhaps by ſome Branches of the Carotide Artery much inlarged, and other Blood-Veſſels coming from

from the Ear, and the Muſcles of the Eye and lower Jaw abovementioned. When Mr. *Gordon* brought it to us, which was full three Months after it was cut off, we cut off with a Knife about a quarter of an Inch broad of the Baſis of it; and in that ſmall ſpace we obſerved four big Blood Veſſels. The Baſis, as it now appears, is five Inches Diameter, which ſeems too large for the whole ſide of the Face: So that after the Exſection, I think the looſe Skin has turn'd backwards, which may make the Baſis now appear ſo big.

After all this Blood was loſt, the Excreſcence was weighed, and was full Nineteen Pound Weight; ſo that before his own Inciſion and this Operation, it behoved to be ſeveral Pounds heavier, which is a moſt prodigious Weight to be depending on ſuch a place. This Tumour was of a Spheroidical Figure, and when meaſured, was Thirty four Inches about by the longeſt way, and Twenty eight by the broadeſt.

The Hæmorrhage, which was great, was ſtopped by the Vitriolic Powders and other Aſtringents, and the ordinary Dreſſing was uſed. So this great Cure was completed in ſix Weeks time, and the Patient entirely recover'd, and goes about his Buſineſs, to the great Admiration and Aſtoniſhment of every body. The Lid of his Left Eye continues ſtill downwards a little, as does that ſame ſide of the Mouth, which was occaſion'd by the great Weight depending on that ſide of the Face; but it may be expected they may come again to their right Poſture; for the Head, at firſt after cutting, enclined much to the Right ſide, by reaſon of the great Weight on the Left Cheek having been removed; but it now begins to ſtand upright, ſince he is perfectly recovered. Tho' the Skin, and even a deal of the muſculous part of the Cheek and

lower

lower Jaw was cut away, yet, according to the Information I have from Mr. *Gordon* the Operator, it is grown up again, and is of the ordinary Colour of the Skin, and like the other ſide of the Face; ſo that there grows Hair on that ſide of the Face as well as on the other, which he ordinarily ſhaves; and this is as ſurprizing as any thing in the whole Affair.

I have given a true and plain Account of this extraordinary Caſe from certain Information; I have contented my ſelf to relate only Matters of Fact, without making any Obſervations or Reflections on it; for I leave it to the Philoſophers and *Virtuoſi* to make their own Reaſonings and Refinements as ſeems beſt to themſelves.

VII. *An Account of an Experiment to prove an* interſpers'd Vacuum; *or to ſhew that all Places are not equaly full.*

THIS Experiment was *made before the* KING, and HER Royal Highneſs the Princeſs of *Wales*, at *Hampton-Court, in the Month of* September 1717. *afterwards before the* ROYAL-SOCIETY, *on* Thurſday, December 5. 1717. *and ſince that, in* Channel-Rowe, Weſtminſter, *before ſome Members of the* Royal-Society, *by* J. T. Deſaguliers, *M. A. F. R. S.* as follows.

Having had the Honour to make ſome Experiments laſt Year before his Majeſty and their *Royal Highneſſes* the *Prince and Princeſs of* Wales; among others, I ſhew'd that of a Guinea and a Piece of fine Paper; then of a Guinea and a Feather dropt together from the top of an exhauſted Glaſs Receiver about 20 Inches high; both which